Algebra 1-2

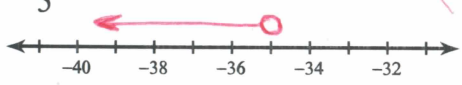
Name ANSWER KEY ID: 1

# WS 3.3 Solving Inequalities Using * or /

Date _____ Period ____

**Solve each inequality and graph its solution.**

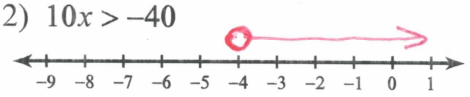
1) $\frac{b}{5} < -7$




$5\left(\frac{b}{5}\right) < (-7)5$

$b < -35$

2) $10x > -40$




$\frac{10x}{10} > \frac{-40}{10}$

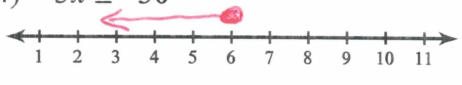
$x > -4$

3) $\frac{a}{4} \geq 10$


$4\left(\frac{a}{4}\right) \geq (10)4$

$a \geq 40$

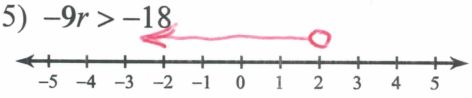
4) $-5x \geq -30$




$\frac{-5x}{-5} \geq \frac{-30}{-5}$ FLIP IT!

$x \leq 6$

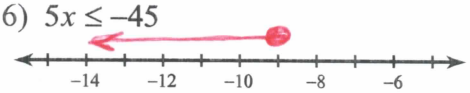
5) $-9r > -18$




$\frac{-9r}{-9} > \frac{-18}{-9}$ FLIP IT!

$r < 2$

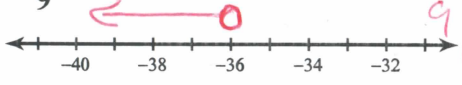
6) $5x \leq -45$




$\frac{5x}{5} \leq \frac{-45}{5}$

$x \leq -9$

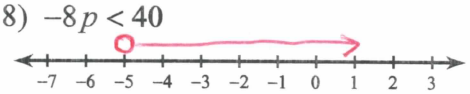
7) $\frac{n}{9} < -4$




$9\left(\frac{n}{9}\right) < (-4)9$

$n < -36$

8) $-8p < 40$




$\frac{-8p}{-8} < \frac{40}{-8}$ FLIP IT!

$p > -5$

9) $-5n < -30$


$\frac{-5n}{-5} < \frac{-30}{-5}$ FLIP IT!

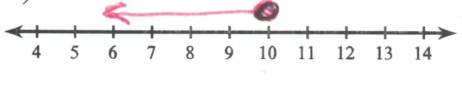
$n > 6$

10) $\frac{v}{10} < 3$


$10\left(\frac{v}{10}\right) < (3)10$

$v < 30$

11) $-10n \geq -100$




$\frac{-10n}{-10} \geq \frac{-100}{-10}$ FLIP IT!

$n \leq 10$

12) $6x > 30$


$\frac{6x}{6} > \frac{30}{6}$

$x > 5$